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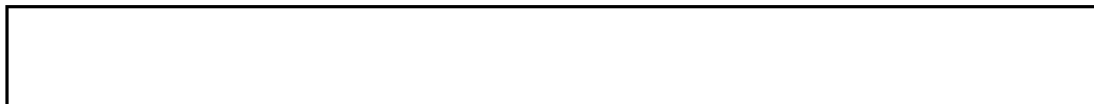
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PHOTOGRAPHIC INTELLIGENCE REPORT

H-SHAPED RADAR TRACKING FACILITIES

USSR

Declass Review by NIMA/DOD



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CIA / PIR 61066

DATE Nov 1965

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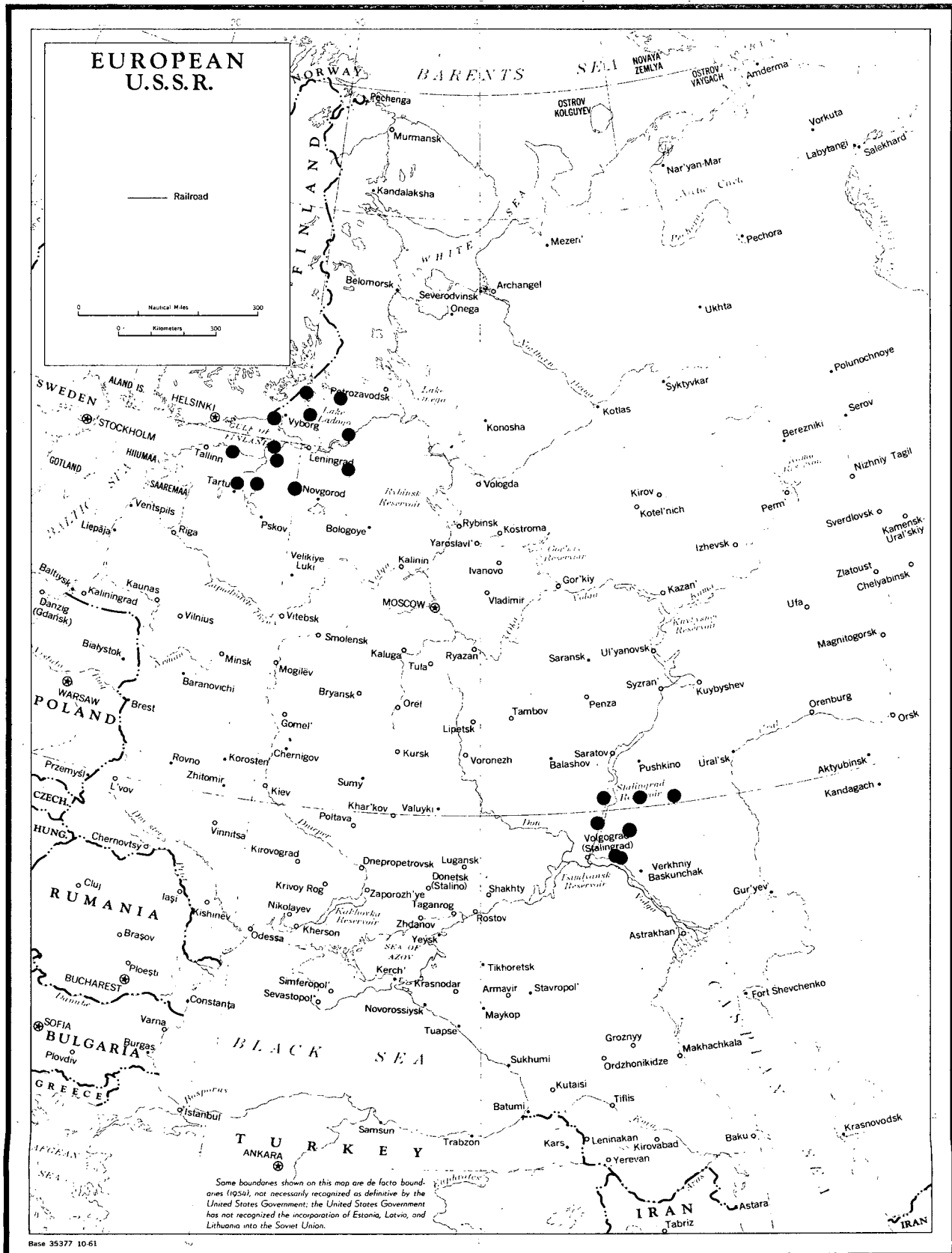
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TITLE
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H-SHAPED RADAR TRACKING FACILITIES
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H-SHAPED RADAR TRACKING FACILITIES

USSR

A total of nineteen H-shaped radar tracking facilities have been identified in the USSR (Figure 1). These H-shaped facilities are located in two widely separated geographic areas, the Kapustin Yar/Vladimirovka Missile Test Range and the Gulf of Finland/Leningrad area.

Seven H-shaped radar tracking facilities are located at the Kapustin Yar/Vladimirovka Missile Test Range. These H-shaped facilities have component quantity differences and are divided into two distinct categories, Type I and Type II. The Type I radar tracking facilities are exemplified by a typical H-shaped road pattern with a radar mound located at each of the four road termini and a centrally located revetted control position. This facility is generally square in shape and secured by a single fence with a security building/guard post adjacent to the service road entrance. The service road connects the facility with an adjacent support area containing approximately six buildings.

Type I radar tracking facilities have been identified at the following locations on the Kapustin Yar/Vladimirovka Missile Test Range.

Elton	49-15N 46-48E	(Figure 2)
Gornyy Balykley	49-33N 45-02E	(Figure 3)
Pallasovka	50-04N 46-14E	(Figure 4)
Site G-2	48-24N 46-14E	(Figure 5)

Type II radar tracking facilities, appear more complex and elaborate in design than the Type I. The Type II facilities contain six mounded radar positions grouped at one end of a rectangular double fenced area with a centrally located revetted control position; three mounded radar positions each with a large revetted control position; and three possible instrumentation positions. Each Type II facility has a support area, containing approximately 15 buildings. These Type II facilities have been identified at the following locations on the Kapustin Yar/Vladimirovka Missile Test Range.

Aleksandrov Gay	50-10N 48-33E	(Figure 6)
Kamyshin	50-03N 45-15E	(Figure 7)
Site G-1 and G-2 (Collectively)	48-25N 46-14E	(Figure 5)

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The small scale of [] photography has precluded identification of radar equipment at the Type I tracking facilities. Two probable BACK NET and four probable SIDE NET radars were initially identified at Kamyshin Type II radar facility. These radars are not present on recent photography. Radar identification was not possible at the other facilities. Based only upon the one observance of these radars at Kamyshin, it is impossible to determine if they are standard components of the Type II tracking facility, or were used solely in a research and development program in association with the Kapustin Yar/Vladimirovka Missile Test Range.

A total of twelve H-shaped radar tracking facilities are located in the Gulf of Finland/Leningrad area. These facilities appear to be deployed versions of the H-shaped facilities located on the Kapustin Yar/Vladimirovka Missile Test Range. Eleven of the H-shaped facilities are of the Type I configuration and the twelfth, near Kerstovo appears to be a modified Type II configuration. A major change noted between the H-shaped facilities at the Kapustin Yar/Vladimirovka Missile Test Range and those in the Gulf of Finland/Leningrad area is the emplacement, at the latter, of two tall lattice towers, each approximately 90 feet high, instead of the four elevated mounds.

Locations of the H-shaped radar tracking facilities observed in the Gulf of Finland/Leningrad area are as follows:

Elisenvara	61-23N 29-47E	(Figure 8)
Gdov	58-44N 27-47E	(Figure 9)
Johvi	59-22N 27-21E	(Figure 10)
Kerstovo	59-28N 28-49E	(Figure 11)
Narva	59-43N 28-29E	(Figure 12)
Priozersk	60-50N 30-22E	(Figure 13)
Salmi	61-24N 31-51E	(Figure 14)
Storozhno	60-31N 32-37E	(Figure 15)
Tihkvin	59-49N 33-32E	(Figure 16)
Tolmachevo	58-52N 29-56E	(Figure 17)
Veskitaguse	58-50N 26-47E	(Figure 18)
Vyborg	60-38N 28-14E	(Figure 19)

H-shaped tracking facilities first appeared on the Kapustin Yar/Vladimirovka Missile Test Range from mid-1961 through spring 1962. A group of three facilities, Johvi, Narva, and Veskitaguse, first appeared in the Gulf of Finland area from mid-1962 through spring 1963 and construction of

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the remaining nine facilities in the Gulf of Finland area began in the spring and summer of 1965.

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CIA [] MEB 149/65, H-Shaped Sites Kapustin Yar and Leningrad
Area, USSR, May 1965 (TOP SECRET [])

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ELTON TYPE I TRACKING FACILITY

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GORNY BAINKLEY TYPE I TRACKING FACILITY

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PALLASOVKA TYPE 1 TRACKING FACILITY

50 04 N - 46 54 N

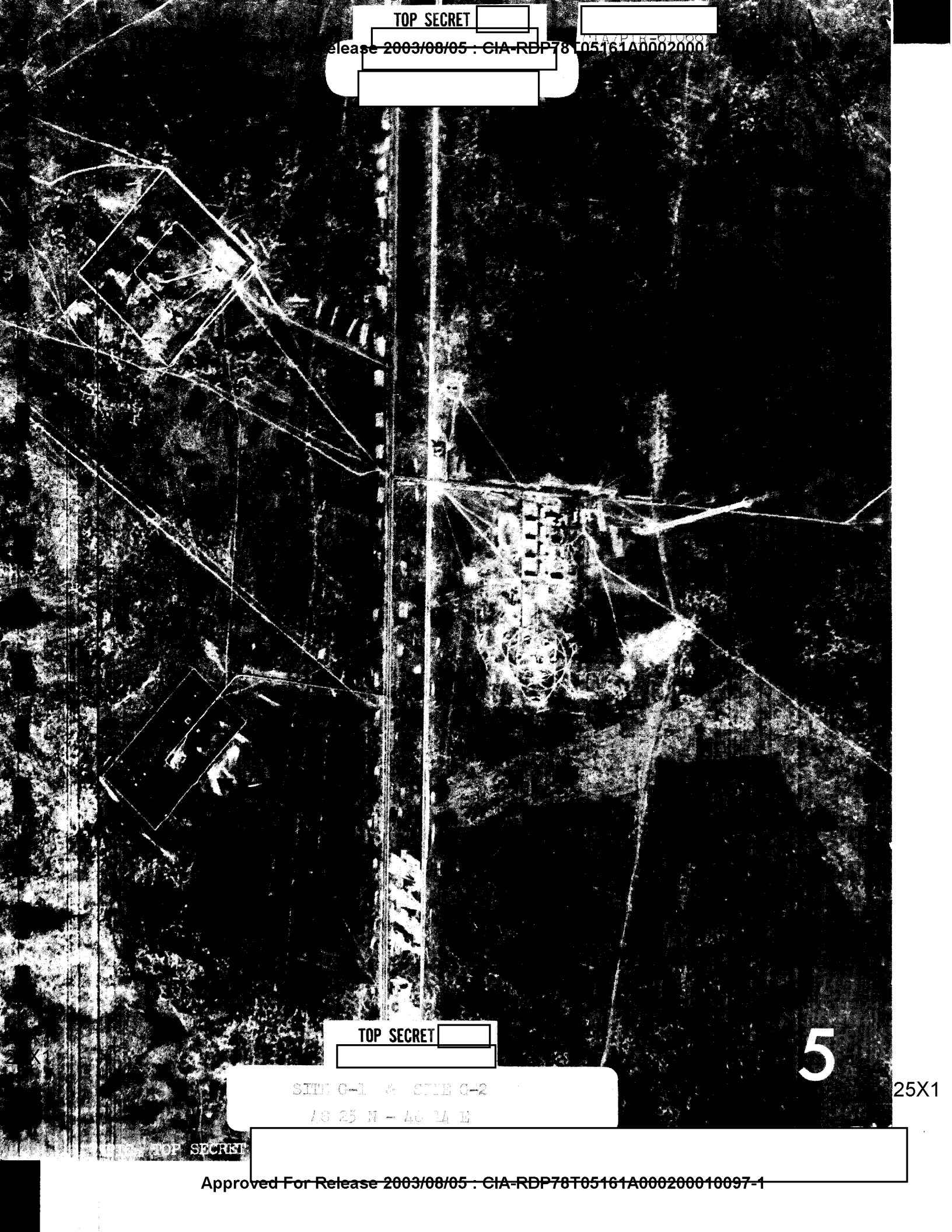
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SITE C-1 & SITE C-2

18 25 N - 40 24 E

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ALEKSANDROV BAY TYPE II TRACKING FACILITY

50 10 N - 48 33 E

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KAMYSHIN TYPE VI TRACKING FACILITY

50 03 N - 45 15 E

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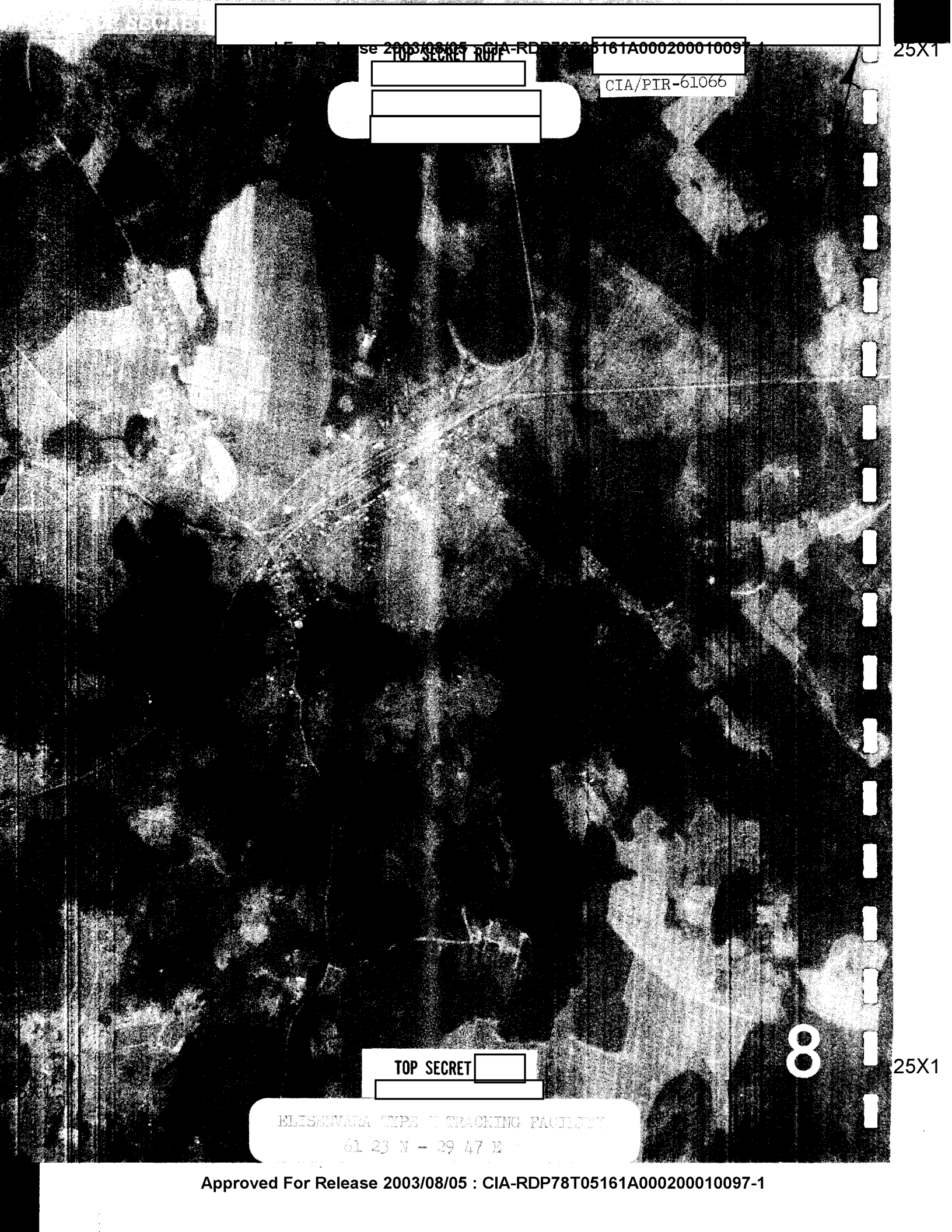
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ELISENVARA TYPE T TRACKING FACILITY
61 23 N - 29 47 E

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GDOV TYPE I TRACKING FACILITY

58 44 N - 27 47 E

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JOINT TYPE 1 TRACKING FACILITY
59 22 N - 27 21 E

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KERSTOVO MOD. TYPE II TRACKING FACILITY

59 28 N - 28 49 E

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25X1

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NARVA TYPE I TRACKING FACILITY

59 43 N - 28 29 E

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PRIOZERSK TYPE 3 TRACKING FACILITY
60 50 N - 30 22 E

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SANIT TYPE 2 TRACKING FACILITY

61 24 N - 31 51 E

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STOROVNO TYPE 1 TRACKING FACILITY

60 31 N - 32 37 E

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TIKHVIN TYPE I TRACKING FACILITY

59 49 N - 33 32 E

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TCIMACHOVO TYPE I TRACKING FACILITY

58 52 N - 29 56 E

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VERMONTACUSE TYPE I TRACKING FACILITY
(58 30 N - 26 47 E)

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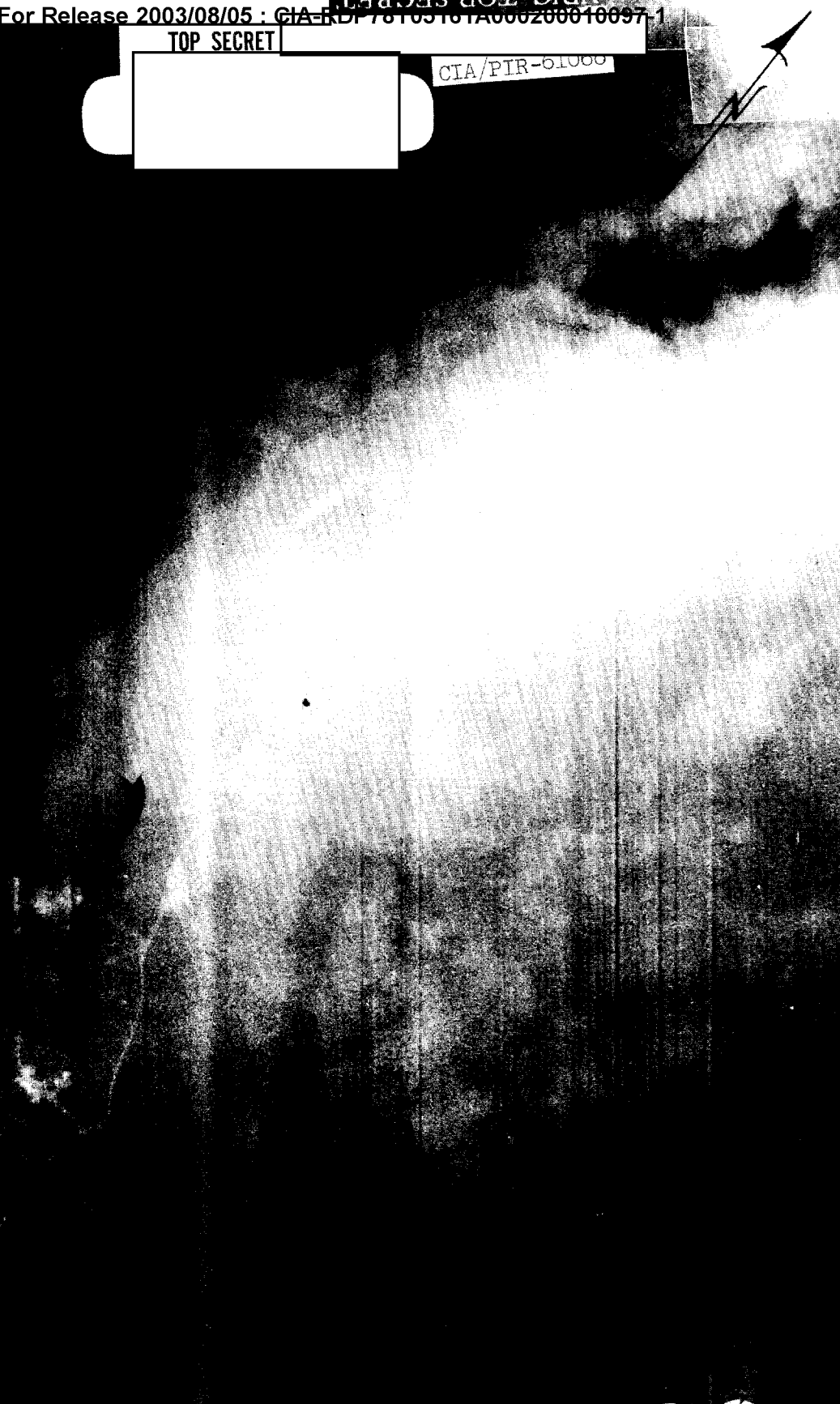
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VYBORO TYPE I TRACKING FACILITY

60 38 N - 0 24 E

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